**UDL Lesson Plan**

**Lesson Title: It cost’s how much?**

**Grade Level: 7th & 8th grade**

**Subject: Computers**

**Developed By: John Cunliffe**

**Unit: Excel**

**Abstract**:

### This lesson I will be having my group of students understand the differences of American money and other currencies around the world. I will have them see how much out the American dollar stacks up to other amounts around the globe. I will have them research other currencies from 5 other countries, name that countries currency, and what it compares to the dollar bill. After the research is finished they will then build a grocery list of 12 items that they will need to buy. They will then “shop” online to find the estimated price of that item. At the end of the 5 grocery list we will compare all 6 (including U.S) countries and see what each costs and how much each would cost in American money. (Example: 1 Chinese Yuan = 0.1563 US dollars) Students will have prior experience to Excel before we start this lesson.

**Length of lesson:** 5-8 class days

**Pre Planning**

**Big Idea (s)**

* Understand about American and other countries currency
* How to use Excel to find the sum of columns and rows
* Research though many different sites to find what is needed
* How to organize Excel and use it for almost any education class

**Essential Questions:**

Out of your 5 countries which one is closest or worth more than the dollar?

Are other countries paychecks on the same scale as to how much it costs to live?

Is there tax on food in other countries?

**New NH Core Content Expectations: or your standards you will meet:**

* 1. Develop knowledge of ethical, responsible use of technology in a society that relies heavily on knowledge of information in its decision-making

1 -2 Become proficient in the use of 21st century tools to access, manage, integrate, evaluate, and create information within the context of the core subjects of : Reading; Mathematics; English and language arts; Science; Social studies, including civics, government, economics, history, and geography; f. Arts; and world languages

**Objectives**:

1. To be able to organize and manage in Excel
2. To be able to navigate through Excel with little help
3. To understand currency around the world
4. To compare our currency with another countries

**Brief Description of Summative Assessment:**

End of this lesson I will assign a small quiz that they will have to write out the formula to similar ones they used in Excel. I will also ask a few questions about currency to see if they understood the lesson to its fullest.

**Lesson Opening:**

I will start the lesson off by asking them about currency to see if they know what it is. I will then ask them if they can find the currency of a 3rd world country and compare it to our dollar. Then I would present the project to them and have them do research for the rest of the class finding what countries they choose to use.

**Exploration:**

They will be using the internet to find certain currencies and also search for food items and their cost in that region. Then they will have the freedom of choosing how they want to set up their Excel spreadsheet for the final product. I expect the spreadsheet to be easy to read and organized.

**Technology: Web 2.0 Connection**

I will not be using a Web 2.0 tool for this lesson. Just the internet and Microsoft Office Excel.

**Global Connection:**

The connection is that we will be comparing how much each country’s currency is worth and if it is worth more or less in the United States.

**Check for Understanding**

I will be checking their work and assigning a short quiz to see if they hit on all parts of the project correctly. I will also be checking the Excel cells to see if they used the correct formulas and not just add cells together in their head. If they have any understanding about currency and Excel it will show in their work and also the short quiz.

**Explanation:**

I will present the project to my students and work with them whenever there is a bump in the road. I will always be on hand if anyone needs help or needs to be guided in the right direction. Students will be able to navigate through Excel since this will not be their first time using this tool. The only issue I see with this lesson is where they will find the different currency and if the information will be accurate. I will be there to steer them in the correct direction.

**Extended Practice:**

*The students will have had prior practice to using Excel both in my classroom and also outside of it. I will have follow up lessons that will refresh their minds if they need to use Excel in the future. Throughout their time with me I will be continuously working in Microsoft Office with them so most of the information if not all will be refreshed throughout the class.*

**Closing**

This lesson I feel will be beneficiary to all students who take part in it. It will show that money can fluctuate and as well in other countries. Currency is something we need to survive and by showing students that it is a global issue that we are facing in this day and age. Having them use Excel is something that they may need outside of school and into their professional careers. Helping them learn, manage, and organize in Excel and other Microsoft Office software it is a rewarding feeling. Knowing that students have done their best work and are ready to use it in the future due to your help is something that as a teacher means the most.